**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Chemistry Properties of Matter (Chapter 3 Outline)**

***AS YOU READ, RESPOND TO THE FOLLOWING:***

*Vocabulary*: **Define in your own words**

Physical property-

Chemical property-

Intensive property-

Extensive property-

Filtration-

Distillation-

Crystallization-

Chromatography-

Sublimation-

Element-

Compound-

Respond to the prompts below:

How do the properties of the physical states of matter differ? Explain. (3 pts)

What characteristics identify a substance? Explain. (2 pts)

Give 3 examples of a physical change for a substance. Explain how your example represents a physical change. (3 pts)

How does the law of conservation of mass apply to chemical reactions? Explain. (2 pts)

How do mixtures and substances differ? Explain. (2 pts)

Compare and contrast homogenous and heterogenous mixtures. Give an example of each mixture type (4 pts)

What are the laws of definite and multiple proportions and why are they important? Explain. (3 pts)

***ABOUT THE READING:***

Write three things that you learned about Properties of Matter*:*

***Make sure to write a full sentence.***

*Example: I learned that in order to observe a chemical property of a substance, it must undergo a chemical reaction.*

*1.*

*2.*

*3.*

***Assigned work****: Chapter 3 assessment, problems # 37, 38, 43, 52, 58, 67, 72, 74, 75*